

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P253569

Luminaire Tested: **J3-UL-30L83050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253569  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: J3-UL-30L83050-1D-UNV-W2A-W-4 (3000K)  
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, OPEN TOP.  
3000K-5000K CCT VividTune LIGHT ENGINE.  
Light Source: (336) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 3000K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2848.2 lumens  
Efficiency: N/A  
Efficacy: 137.6 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.36 / 1.44  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

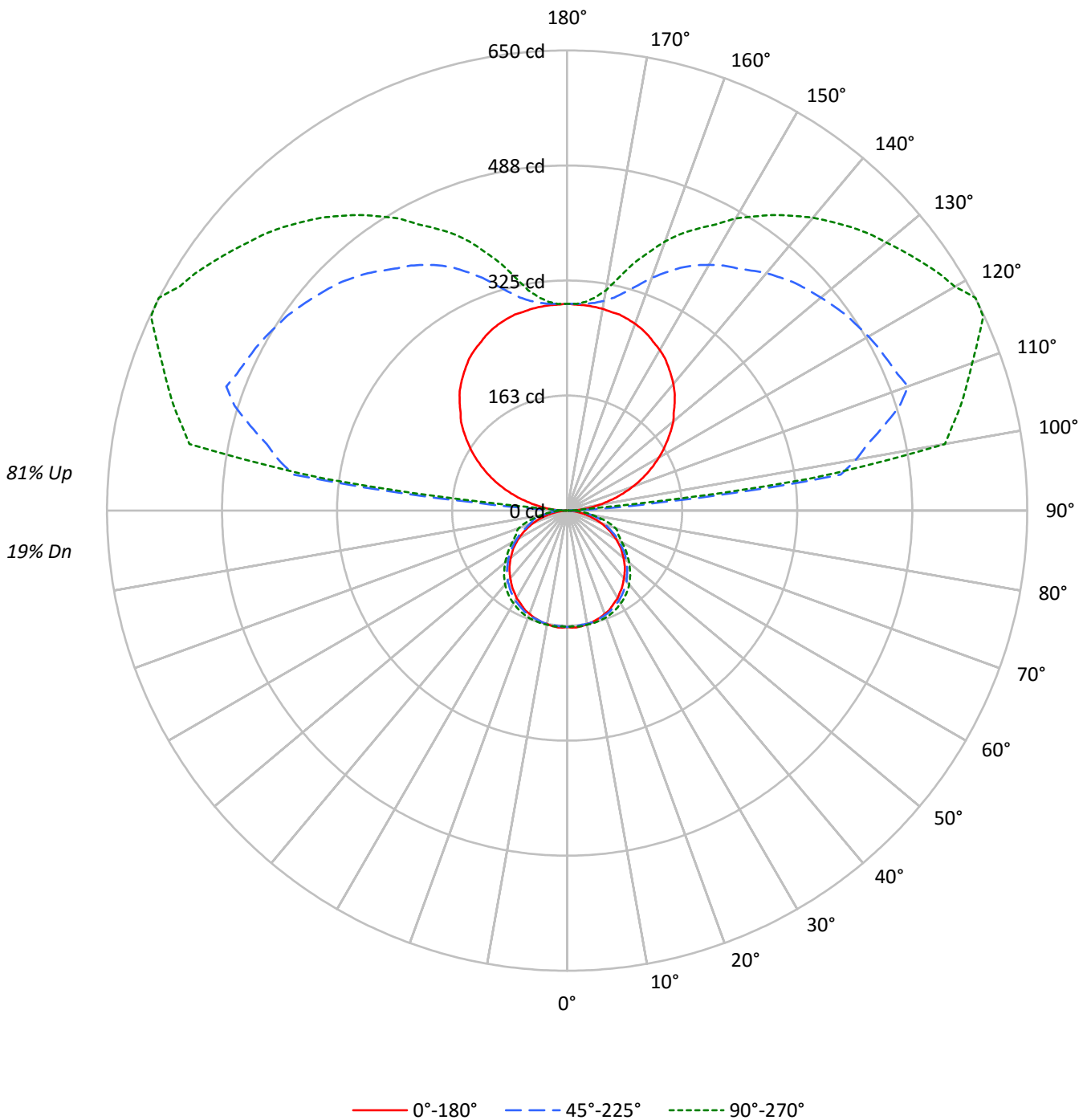
Input Watts (W): 20.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	100	100	100	100	88	88	88	88	66	66	66	46	46	46	27	27	27	19
1	91	86	83	79	80	76	73	70	57	55	53	40	39	37	24	23	23	15
2	82	75	69	64	72	66	61	57	50	47	44	35	33	31	21	20	19	13
3	75	66	59	53	66	58	52	47	44	40	37	31	28	26	18	17	16	10
4	68	58	50	45	60	51	45	40	39	34	31	27	24	22	16	15	13	9
5	62	51	44	38	55	45	39	34	34	30	26	24	21	19	14	13	12	8
6	57	46	38	32	50	41	34	29	31	26	23	22	19	16	13	11	10	7
7	53	41	33	28	46	36	30	25	28	23	20	20	16	14	12	10	9	6
8	49	37	30	25	43	33	27	22	25	21	17	18	15	13	11	9	8	5
9	45	34	26	22	40	30	24	19	23	18	15	16	13	11	10	8	7	5
10	42	31	24	19	37	27	21	17	21	17	14	15	12	10	9	7	6	4

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1328	1328	1328
5°	1341	1326	1333
10°	1333	1333	1341
15°	1336	1336	1359
20°	1332	1349	1381
25°	1331	1356	1398
30°	1331	1367	1410
35°	1324	1370	1426
40°	1315	1375	1435
45°	1318	1371	1436
50°	1306	1365	1437
55°	1305	1357	1437
60°	1282	1343	1435
65°	1245	1318	1517
70°	1183	1338	1718
75°	1092	1535	1740
80°	967	1539	1669
85°	787	1751	1927



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.6	0.5
10°-20°	45.4	1.6
20°-30°	70.5	2.5
30°-40°	87.2	3.1
40°-50°	92.9	3.3
50°-60°	86.6	3.0
60°-70°	70.6	2.5
70°-80°	48.4	1.7
80°-90°	18.9	0.7
90°-100°	166.4	5.8
100°-110°	430.3	15.1
110°-120°	446.1	15.7
120°-130°	396.5	13.9
130°-140°	330.5	11.6
140°-150°	252.0	8.8
150°-160°	169.8	6.0
160°-170°	92.0	3.2
170°-180°	28.3	1.0
0°-30°	131.6	4.6
0°-40°	218.8	7.7
0°-60°	398.3	14.0
0°-90°	536.3	18.8
90°-120°	1042.9	36.6
90°-150°	2021.9	71.0
90°-180°	2312.0	81.2
0°-180°	2848.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	164	164	164	164	164	
5°	166	164	164	164	164	16
15°	160	160	160	162	163	45
25°	149	150	152	156	157	69
35°	134	135	139	144	145	84
45°	115	117	120	125	126	89
55°	93	94	96	100	102	82
65°	65	67	69	76	79	64
75°	35	38	49	55	56	37
85°	8	15	19	21	21	10
90°	1	2	2	1	1	3
95°	24	186	131	23	23	24
105°	72	298	463	546	576	76
115°	125	307	500	624	649	123
125°	173	314	481	580	612	155
135°	215	323	455	540	566	166
145°	249	318	418	488	510	156
155°	272	304	378	427	440	126
165°	286	294	320	351	361	81
175°	291	292	293	295	296	28
180°	292	292	292	292	292	



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CATALOG NUMBER: J3-UL-30L83050-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	164.5	164.5	164.5	164.5	164.5
2.5°	165.5	165.5	163.6	163.6	163.6
5°	165.5	164.5	163.6	163.6	164.5
7.5°	164.5	164.5	162.6	163.6	164.5
10°	162.6	162.6	162.6	163.6	163.6
12.5°	161.7	161.7	161.7	162.6	163.6
15°	159.8	159.8	159.8	161.7	162.6
17.5°	157.9	157.9	158.8	160.7	161.7
20°	155.1	156.0	157.0	159.8	160.7
22.5°	153.2	153.2	155.1	157.9	158.8
25°	149.4	150.3	152.2	156.0	157.0
27.5°	145.6	146.6	149.4	153.2	154.1
30°	142.8	143.7	146.6	150.3	151.3
32.5°	138.0	139.9	142.8	147.5	148.4
35°	134.3	135.2	139.0	143.7	144.7
37.5°	129.5	131.4	134.3	139.0	140.9
40°	124.8	126.7	130.5	135.2	136.2
42.5°	120.1	122.0	124.8	129.5	131.4
45°	115.4	117.2	120.1	124.8	125.8
47.5°	109.7	111.6	114.4	119.1	120.1
50°	104.0	105.9	108.7	112.5	114.4
52.5°	98.3	100.2	103.1	106.8	107.8
55°	92.7	93.6	96.4	100.2	102.1
57.5°	86.0	87.9	89.8	93.6	95.5
60°	79.4	80.4	83.2	87.0	88.9
62.5°	71.9	73.7	76.6	80.4	84.1
65°	65.2	67.1	69.0	75.6	79.4
67.5°	57.7	59.6	62.4	70.9	77.5
70°	50.1	52.0	56.7	69.0	72.8
72.5°	42.5	44.4	52.0	63.3	65.2
75°	35.0	37.8	49.2	54.8	55.8
77.5°	27.4	30.3	41.6	44.4	45.4
80°	20.8	25.5	33.1	35.9	35.9
82.5°	14.2	21.7	25.5	27.4	28.4
85°	8.5	15.1	18.9	20.8	20.8
87.5°	4.7	9.5	13.2	16.1	15.1
90°	0.9	1.9	1.9	0.9	0.9
92.5°	13.2	38.8	11.3	10.4	10.4
95°	23.6	186.3	131.4	22.7	22.7
97.5°	34.0	227.9	389.5	458.6	345.1
100°	45.4	270.4	414.1	512.5	541.8
102.5°	57.7	290.3	434.9	526.6	557.8
105°	71.9	297.8	463.3	546.5	575.8
107.5°	85.1	302.6	492.6	564.5	591.9
110°	98.3	304.5	512.5	585.3	608.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	111.6	306.3	504.9	609.8	627.8
115°	124.8	307.3	500.2	624.0	648.6
117.5°	137.1	309.2	496.4	609.8	650.5
120°	149.4	311.1	491.7	598.5	632.5
122.5°	161.7	313.0	486.0	590.0	623.1
125°	173.0	313.9	481.3	580.5	611.7
127.5°	184.4	315.8	474.6	571.1	600.4
130°	195.7	319.6	468.0	560.7	589.0
132.5°	204.2	322.4	461.4	551.2	578.6
135°	214.6	323.4	454.8	539.9	566.4
137.5°	225.0	323.4	446.3	528.5	553.1
140°	233.5	322.4	437.8	515.3	539.9
142.5°	241.1	320.5	427.4	502.1	524.8
145°	248.7	317.7	417.9	487.9	509.6
147.5°	256.2	314.9	410.3	472.8	492.6
150°	261.9	311.1	400.9	456.7	476.5
152.5°	266.6	306.3	390.5	441.5	455.7
155°	272.3	303.5	378.2	427.4	439.7
157.5°	277.0	299.7	364.0	412.2	423.6
160°	280.8	297.8	349.8	392.4	404.7
162.5°	283.7	295.0	333.8	372.5	382.0
165°	286.5	294.1	319.6	350.8	361.2
167.5°	287.4	292.2	308.2	328.1	336.6
170°	289.3	292.2	300.7	312.0	315.8
172.5°	290.3	292.2	295.9	301.6	303.5
175°	291.2	292.2	293.1	295.0	295.9
177.5°	291.2	292.2	292.2	292.2	292.2
180°	292.2	292.2	292.2	292.2	292.2

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